

Home Performance with ENERGY STAR Partner Meeting



Follow the action on Twitter #HPC17 #HPwES



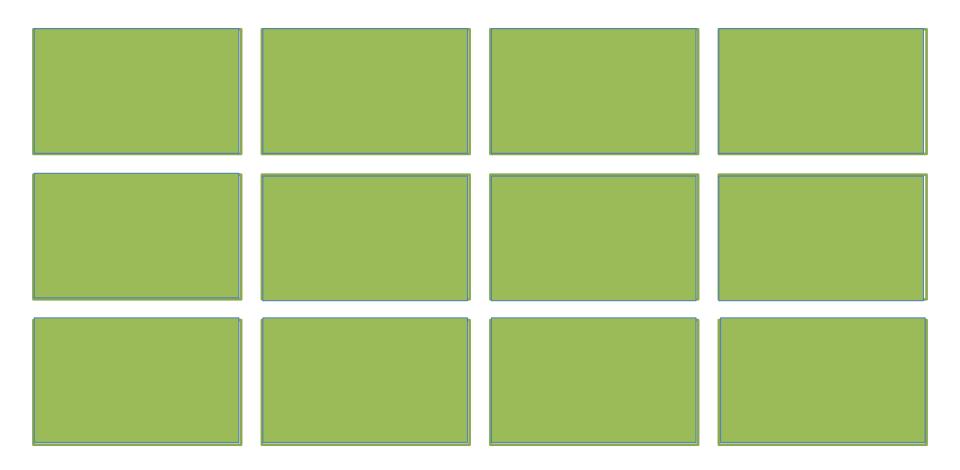








Who do we have in the audience?







Partner Meeting Agenda

- 1:00 PM Welcome & National Program Update
- 1:35 PM **EPA Indoor airPLUS Program**
- 1:45 PM Home Performance with ENERGY STAR Sponsor Panel
- 2:55 PM Break
- 3:15 PM Using Home Energy Score to Promote Home Performance with
- **ENERGY STAR, Weatherization, and More**
- 3:50 PM How to Work in Both Weatherization and Home Performance
- 4:00 PM Contracting Industry Panel
- 5:00 PM Wrap Up





National Program Update

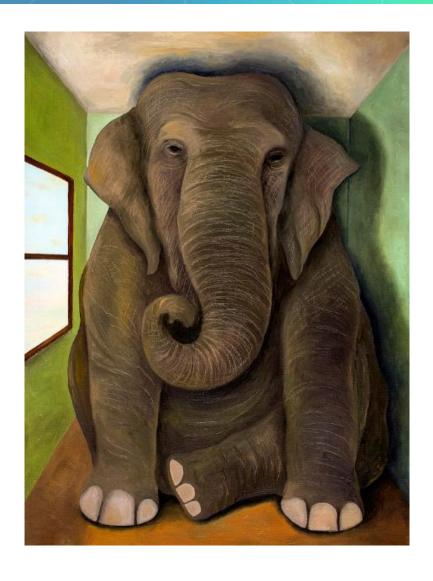
Ely Jacobsohn, Home Performance with ENERGY STAR Program Manager, U.S. Department of Energy

Topics for Discussion

Updates on the last year What we are focusing on now











Why Ely's encouraged....







National Home Performance with ENERGY STAR Update

15th Anniversary of HPwES!







Ely Jacobsohn, DOE, HPwES Program Manager



What is Home Performance with ENERGY STAR?

A public-private voluntary partnership program focused on turning building science-based recommendations into solutions for improved, energy-efficient homes

- ✓ Trust the work and the worker
- ✓ Quality third-party quality assurance
- ✓ Whole-House Approach methodical, thoughtful improvements













Importance of the ENERGY STAR Brand

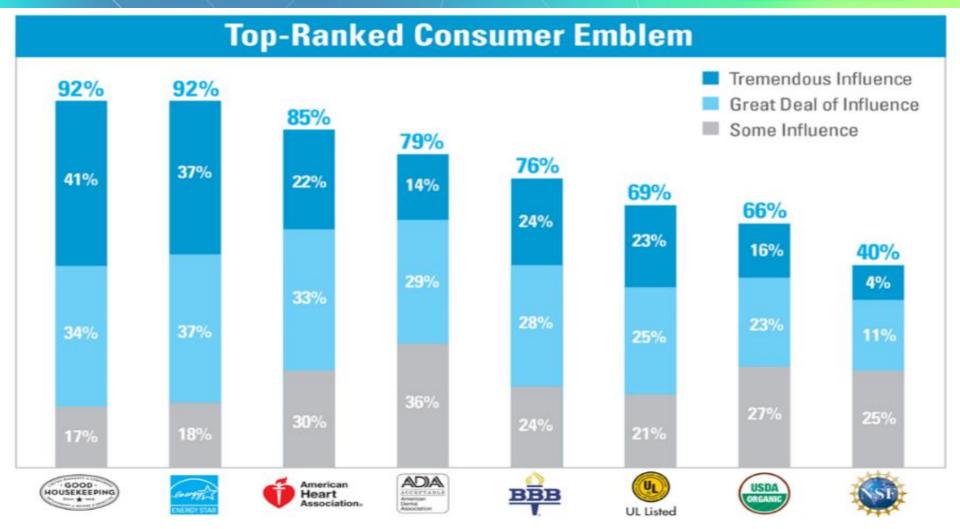
80/0

of households recognized the ENERGY STAR label when shown the label.

Source: The Consortium for Energy Efficiency's report National Awareness of ENERGY STAR for 2015







Source: Fairfield Research, July 2011





Welcome New Partners!









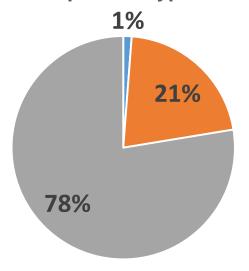
An EDISON INTERNATIONAL® Company



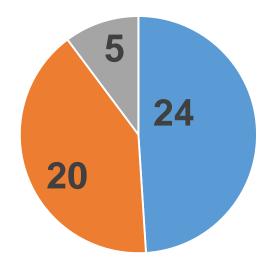


Sponsor Landscape

% of 2016 Projects Completed by Sponsor Type



Number of Sponsors by 2016 Production Volume



- Low Volume (<200 Projects)
- Mid-Volume (200-2,000 Projects)
- High-Volume (>10,000 Projects)

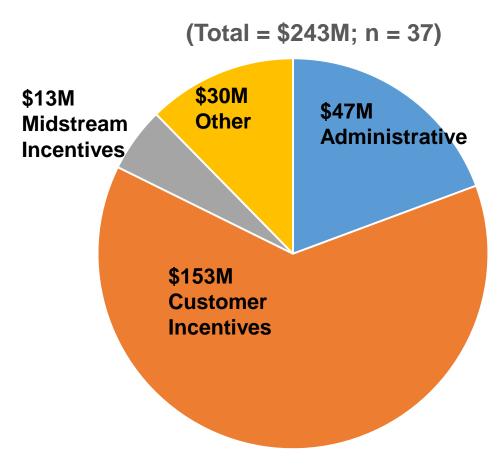
(Over 1,500 active participating contractors nationwide)





From the Annual Report: Spending*

Total Program Spending, by Budget Category



*Annual Report
Data will be
finalized in May

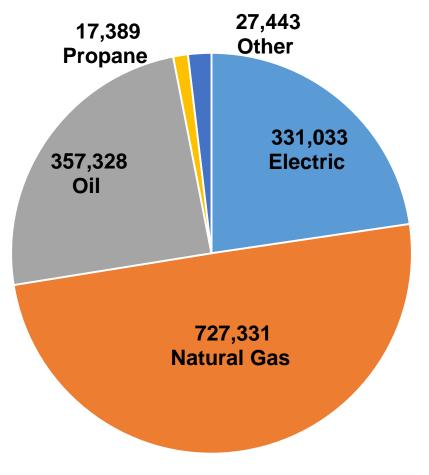




From the Annual Report: Savings*

Total Program Energy Savings by Fuel Type (MMBtu)





*Annual Report Data will be finalized in May





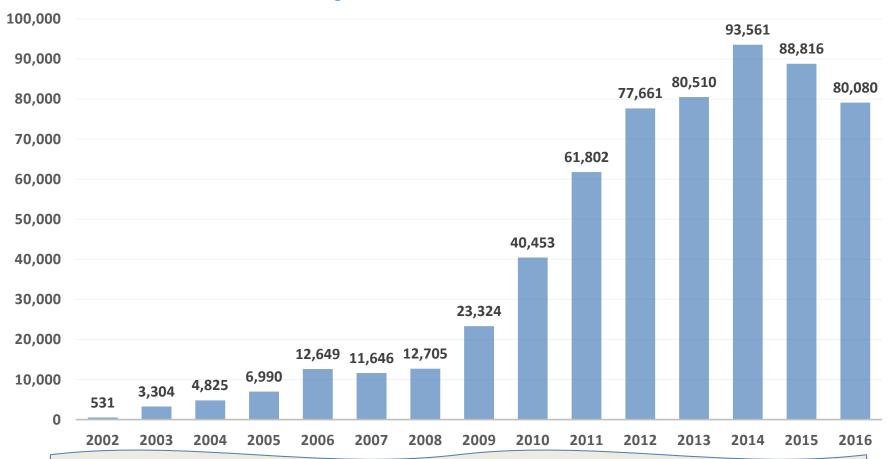
Areas of Growth*

- Increased commitment to marketing (16% of the average program's administrative budget, up from 12%*)
- 12 sponsors saw growth in 2016, with regional strength in the Mid-Atlantic, South and West
- More programs offering financing (19 in 2016, up from 16 the prior year)
- Notable activity in multifamily and income-targeted projects





Projects Since 2002



Over 600,000 Projects Completed!





Challenges and Roadblocks

Sustainable Program Funding

Cost Effectiveness

Weather

Energy Prices

Contractor Retention

Finding
Qualified
Employees

Lack of Consumer Awareness

Market Saturation





Why Ely's encouraged....







Strategies & Goals Overview



Our Strategies

Increase Partnerships

Expand Outreach and Marketing

Improve Operational Excellence



Our **Objectives**

Develop the Value Proposition

Increase Awareness of the Value Proposition

Enhance Stability and Certainty in the Market





Increase Partnerships	Develop Value Proposition	Increase Awareness of Value Proposition	Enhance Stability & Certainty
Recruit new program partners to increase the availability of HPwES to more homeowners		Х	Х
Demonstrate an Aggregator delivery model to prove a non-publicly funded delivery model for HPwES	Х		X
Partner with HPC to deliver training for programs and contractors on business admin, marketing, and sales	Х	Χ	X
Explore the use of an ENERGY STAR label for existing homes	Х	Х	
Facilitate and encourage outreach to State HFA's and other affordable sector partners	Х	Х	





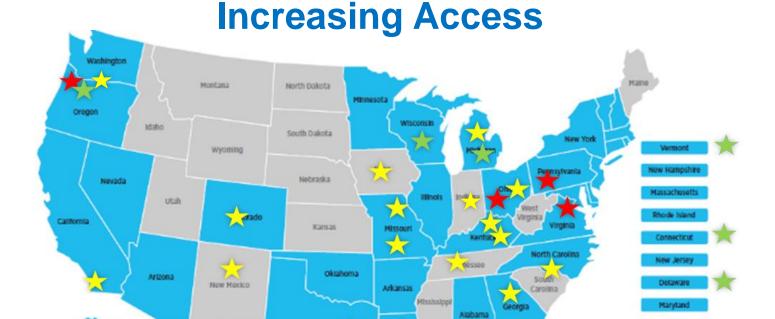
Focusing on a way

ngsponsors

Want to hear more?
Join us at Boot
Scootin' Home
Performance with
ENERGY STAR
Tuesday 1:30-3:00













Marketing & Outreach	Develop Value Proposition	Increase Awareness of Value Proposition	Enhance Stability & Certainty
Distribute tools, resources, and marketing materials for program Sponsors and Contractors to communicate the value of HPwES		X	X
Enhance HPwES Website		X	
Increase Clarity on the Awards Process		X	X





Marketing & Outreach Enhancements

Website enhancements

- New sponsor search tool
- New graphics
- Simpler messaging
- HPwES website averages
 12,000 page views per month
- Consumer marketing
 - Promotional flyers/factsheets
 - Testimonials
 - Glossary of home performance terms
 - Videos/tips
 - Updated program brochure
 - Social Media





. Seal of leptic and add insulation where II is needed

ENERGY

Poplace failing windows and doors
 Engage incoor or quality standards are med

Address your comfort concorns
 Se backed by third-party quality assurance

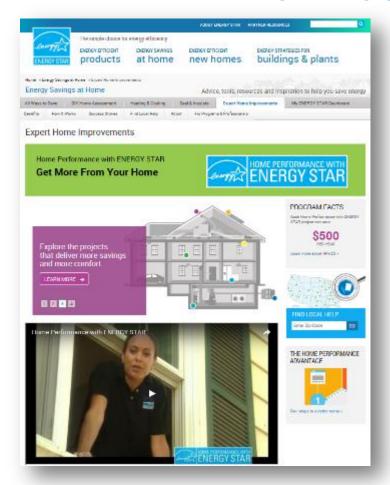


Home Engineement

Facommendations



New Look Website!







www.energystar.gov/hpwes



Operational Excellence	Develop Value Proposition	Increase Awareness of Value Proposition	Enhance Stability & Certainty
Support local Pay for Performance and M&V 2.0 activities related to HPwES	х	х	х
Support HPC and the National Efficiency Screening Project to develop a new National Standard Practice Manual for Energy Efficiency	X	X	x
Support the development, expansion, and awareness of the HPXML data dictionary and transfer standard	x	x	
Identify data needed to track progress and develop a strategic plan to explore integration with Home Energy Score as a data reporting tool	x		x





performance

Health a

Identify and lev

Want to hear more?

Join us at What Do We Really Know About the

Health Benefits of Energy

Upgrades?

Monday 10:30am -12pm

LiteratuHousing ano

o Resear

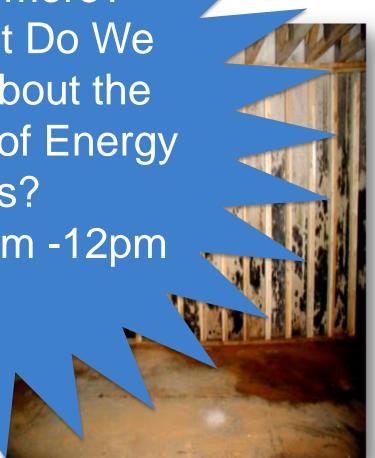
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Learn

Roadmap to least health converse

- HPwES roa (ap)
- Consumer mark ang f
- Email <u>homehealth@csra.con</u> to en ge





ative

High Performance Building Envelope Assemblies



Team and Partners	Topic Area
Home Innovation Research Labs, Inc. w/ ACC, NAHB, FPL, VSI, Dow, SIPA, APA, IBHS, DuPont	High Performance Moisture Managed Envelopes (2015)



- Moisture Performance of High-R Wall Systems: Study moisture performance in high-R walls (>R-20) in 20 occupied high performance homes across different climate zones.
- Extended Plate and Beam Wall System: Study the constructability and structural/moisture performance of high-R walls with rigid foam insulation <u>behind</u> the WSP, in the pocket resulting from wall plates one dimension wider than studs.
- Attic Retrofits Using Nail-Base Insulated Panels: Study the constructability, energy and moisture performance of an innovative retrofit approach using nail-base insulated panels installed above the existing roof deck.

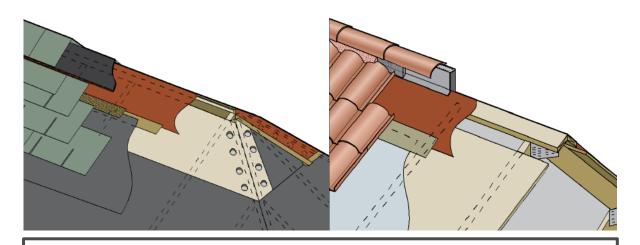
Success Metrics: Measured and modeled performance of high-R walls and design guidance for all climates. Efficient, durable wall assembly to meet and exceed new IECC targets. HVAC energy savings of 10% or more for sealed attics and cathedral ceilings.

Monitoring of Unvented Roofs with Diffusion Vents and Interior Vapor Control in a Cold Climate



Team and Partners	Topic Area
Building Science Corporation w/ DuPont, Owens Corning, Cosella-Dörken, K. Hovnanian Homes	High Performance Moisture Managed Envelopes (2016)

- Interior vapor control membrane on attics with fibrous insulation.
- Enables affordable insulation solution for attics, bringing the HVAC equipment into the conditioned space.
- New Construction Field Test
- Existing Manufactured Housing Field Test/ Demonstration
- Up to 3 winters of data



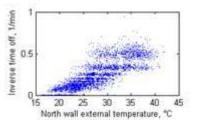
Success Metrics: Assessment & validation of unvented roof construction detail to enable moisture managed fibrous insulation solutions in cold climates, achieving code & above code performance (R-49) at up to 80% material cost reduction, and saving >10% in HVAC energy use.

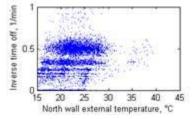
Physics-based Interval Data Models to Automate and Scale Home Energy Performance Evaluations



Team and Partners	Topic Area
Fraunhofer USA, Inc. w/ Eversource, National Grid, Holyoke Gas & Electric	Performance Measurement (2016)

Develop a highly scalable tool that automatically and remotely analyzes communicating thermostat (CT) and interval meter data to identify household-specific retrofit opportunities to reduce heating energy consumption, quantify expected retrofit energy savings, and validate post-retrofit energy performance.







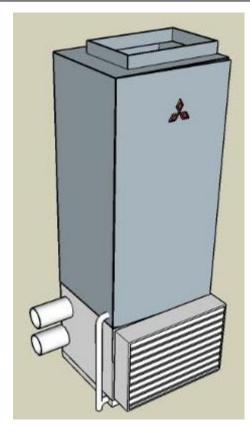


Success Metrics: Develop & validate approach that correctly identifies households with the target retrofit opportunities with 1) at least 75% classification accuracy and 2) +/-25% accuracy in predicting retrofit energy savings, to significantly increase the uptake of the target retrofit measures while reducing program recruitment costs per retrofit project. Success metrics include doubling the rate of onsite energy audits in partner utility programs for the target households identified by the tool.

Ventilation Integrated Comfort System (VICS)



Team and Partners	Topic Area
Steven Winter Associates, Inc. w/ Mitsubishi	Optimal Comfort Systems and Optimal Ventilation & IAQ Solutions (2016)



- Development of integrated ERV and heat pump
- Variable speed fans for low energy and high controllability
- Test and demonstrate in unoccupied and occupied homes
- Lower cost and higher performance than typical practice of Central Fan Integrated Supply (CFIS) ventilation

Success Metrics: Develop, validate, & demonstrate VICS, to reduce up-front cost \$1,000-\$2,000 and save 400-800 kWh/year, compared to separately installed standard ducted ventilation & HAC systems. Enables balanced ventilation, better IAQ, & RH control in tight homes at lower cost.

Performance-Based IAQ and Optimized Ventilation



Team and Partners	Topic Area
Southface Energy Institute w/ Underwriters Laboratory, Beazer Homes, Illinois Sustainable Technology Center, Venmar, Kerley Family Homes	Optimal Ventilation & IAQ Solutions (2016)

- Develop assessment protocol incorporating lowcost IAQ sensors: PM2.5, CO₂, O₃, formaldehyde, and radon sensors
- Benchmark IAQ metrics in new and existing homes
- Smart ERV field tests in real-world homes to evaluate impact on IAQ and energy consumption
- Pilot LBNL-developed IAQ Score in test homes



Success Metrics: Develop & validate a performance-based protocol for assessing indoor air quality (IAQ) in homes and inexpensive smart ERV solution that can achieve average annual HVAC energy cost savings of approximately \$100 compared to central fan integrated supply systems, and ~50% reduction of ventilation related latent loads compared to supply or exhaust strategies. Goal is to overcome builder reluctance to airtightness & ventilation strategies, to enable energy savings from tight construction in hot/humid climates, while reducing IAQ risks and improving comfort.

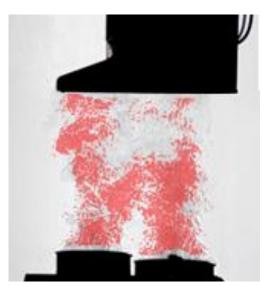
Development of the Industry's First Smart Range Hood



Team and Partners	Topic Area
Newport Partners w/ Broan-NuTone	Optimal Ventilation & IAQ Solutions (2016)

- Kitchens are the primary source of the most harmful pollutants generated in the home.
- Kitchen range hoods are seldom used and can be ineffective.
- Develop a Smart Range Hood that senses pollutants, with automatic operation.
- Improve residential IAQ, extend lives, and save billions of dollars in health-related costs annually.

Success Metrics: "Smart" range hood developed & validated that is very quiet (≤ 1 sone), up to 5 times more efficient than ENERGY STAR, and near 100% capture efficiency, at a target price point competitive with the intermediate market. Enables tighter homes, ZERH specs, & better IAQ by addressing major indoor pollutant source.







Home Improvement Catalyst (HI Cat)



HI Cat Focus: Identifying and prioritizing activities where DOE can have the greatest impact in accelerating adoption of energy efficient technologies and practices at key home improvement transactions.

Contact: Steve Dunn, DOE Project Manager

e-mail: steve.dunn@ee.doe.gov



Scoot on over to join us this week...

Tues -- 7:15 am Roundtable: Making HVAC Quality Installation

Achievable

Tues -- 10:30 am Session: Solving the Challenges of Retrofits

Wed -- 10:30 am Session: The Impact Driven Value Proposition Challenge











Indoor airPLUS program

Aaron S. Johnson, QAD
Indoor airPLUS / Healthy Home Performance
Indoor Environments Division
U.S. Environmental Protection Agency







Home Performance with ENERGY STAR Sponsor Panel







Value Proposition: TEE it off for the Sponsor Panel!



Development of the "Value Proposition" for Stakeholders

- Cost Effectiveness
- Pay for Performance
- Engagement with other industries

Increasing Awareness of the "Value Proposition"

- Marketing materials and User Group
- Home Energy Score

Dealing with Market Uncertainty

- Contractor Training
- Selling in uncertain markets
- Structuring businesses to be resilient





John White Senior Manager ICF International









Empower \$\frac{1}{2}

BGE, Pepco, Delmarva Power, SMECO

March 19, 2017



DOE Sponsor Meeting

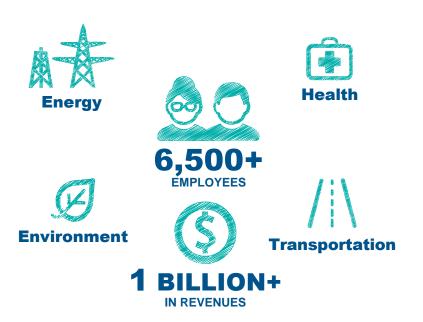
John F. White

ICF

Data, Insights, and Deep Implementation Expertise

ICF – WE MAKE BIG THINGS POSSIBLE

NATIONWIDE DSM IMPLEMENTATION









150

Energy Efficiency Programs **50**

Clients Across North America **15**

Large Portfolios

WITH INTEGRATED, IN-HOUSE

Customer Service + IT Backbone + Award-winning Marketing

Performance Based Incentives

Incentive Structure

Incentives up to \$7,500 (capped at 75% of cost)

Calculated Lifetime MMBtu Savings

- Calculated through Beacon HEA
 - Annual savings for eligible measures multiplied by measure life then converted to MMBtu
- Floating range of incentives
 - Electricity Savings (\$12-\$20) per lifetime electric MMBtu (293.071 kWh per MMBtu)
 - -Natural Gas Savings (\$1-\$3) per lifetime natural gas MMBtu (10 therms per MMBtu)
 - · Nat. Gas incentives offered across all utilities on shell measures
 - Nat. Gas incentives on furnaces only offered through BGE
- Starting incentive levels
 - \$18 per electric MMBtu & \$3 per natural gas MMBtu
- Prescriptive rebates:
 - Duct sealing guaranteed minimum rebate
 - –HVAC replacements coupled with shell improvements
- HVAC early retirement
 - Performance-based (with qualifications)



Performance Based Incentives

For more, come to our session:

Comprehensive Home Performance with ENERGY STAR®:

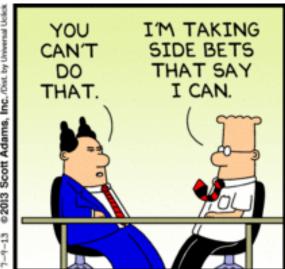
Motivating your Customers & Contractors

Wednesday, March 22, 2017 at 8:30AM

Music Row 2 (level two)









Leveraging a Strong Trade Ally Network

60 Trade Allies participate in the HPwES programs in Maryland

- Sign Contractor Participation Agreement
 - Maintain state licensing
 - Hold insurance
 - -BPI certified
- Trade Allies assigned an Account Manager
 - -Provide guidance on program requirements
 - -Provide support for rebate application submissions
 - -Provide training and onboarding
 - Conduct quarterly meetings to review program results and changes
- Trade Ally engagement and support
 - Regular stakeholder meetings
 - Participating contractor logo
 - Program marketing drives customers to the find a contractor page
 - Focus groups







Thank you

John F. White

John.White@icf.com

443-718-4864





Elizabeth Murphy

Senior Program Administrator United Illuminating Company









Empowering you to make smart energy choices



Empowering you to make smart energy choices

Building Value through HPwES in Connecticut

Elizabeth Murphy March 19, 2017







Energize Connecticut

- Statewide initiative which helps consumers reduce their energy bills, save money, and reduce their carbon footprint
- A partnership of the Energy Efficiency Fund, the Connecticut Green Bank, Department of Energy and Environmental Protection ("DEEP") and local electric and gas utilities
- Funded by a charge on customer electric and natural gas bills



Home Energy Solutions (HES)

- HPwES program offering direct-install energy efficiency products and services for single family (1-4 units) homes
- Comprehensive energy assessment for low co-pay
- BPI certified HES lead technician addresses all energy-saving opportunities and qualifies home for add-on measure rebates
- Financing options provided to make add-on measures affordable



Low Income and Multifamily Programs

- HES Income Eligible is Connecticut's low income HPwES program
 - Offers same services as HES, but at no cost to qualifying residents
 - Partners with WAP to maximize reach of WAP funding
- Multifamily initiative offers comprehensive energy improvement services and customized incentives to 5+ unit properties
 - Incorporating HPwES brand in 2017



Building Value through HPwES

- Value Proposition
 - Customer education
 - Integration of DOE Home Energy Score
- Increasing Awareness
 - Low income and multifamily customers
 - Real estate community
 - Solar industry
- Market Uncertainty
 - Enhanced marketing efforts
 - Robust technician training



Value Proposition

- Customer education
 - Detailed customer report offering recommendations based on home's energy usage
- Integration of DOE Home Energy Score
 - Connecticut became first statewide implementer in April 2015
 - Over 18,000 scores generated to date!
 - Leverage score to encourage sellers to make energy improvements prior to selling
 - Showcase ability to compare homes when buying



Increasing Awareness

- HES Income Eligible
 - Incorporated HPwES brand in 2016
 - Goal of offering Home Energy Score in 2018, working towards solutions for challenges:
 - Development of mobile data collection tool
 - Ensuring HES-IE lead techs are qualified Assessors
 - Renter-occupied properties → ensuring communication with decision-maker (i.e., landlord)
 - Limited customer resources to invest in recommended upgrades
- Multifamily incorporating HPwES brand in 2017



Increasing Awareness

- Engagement with real estate community
 - Educate realtors to understand value of energy efficiency
 - Collaborate with realtors to generate leads and leverage Home Energy Score
- Engagement with solar industry
 - 2017 Coffee and... matchmaking events designed to integrate home performance and solar
 - Home Energy Score as an option for homeowners to meet energy audit requirement for solar incentives and financing



Market Uncertainty

- Enhanced marketing efforts
 - Multiple touch points
 - Custom Resource Center customizable marketing collateral



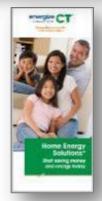






- Robust technician training
 - Detailed field manual containing talking points to facilitate customer interaction
 - Sales and technical training







For more info on Connecticut's program visit:

EnergizeCT.com/HES

EnergizeCT.com/DOEHomeEnergyScore



Scott Bloedorn

Project Manager - Residential Programs Focus on Energy







Focus on Energy - Home performance with ENERGY STAR®

Scott Bloedorn
Home Performance Project Manager

About Focus on Energy

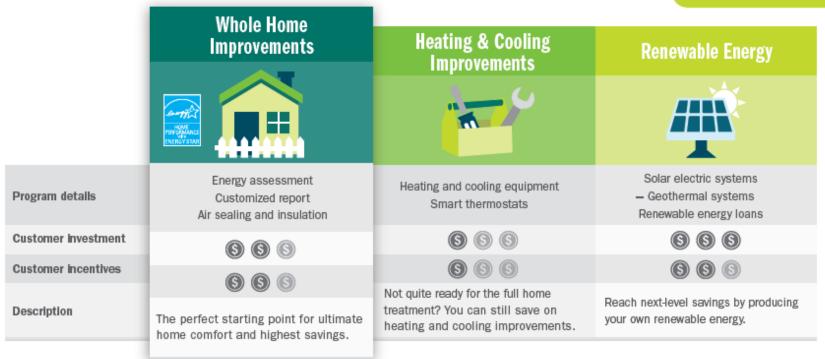
- Focus on Energy is Wisconsin utilities' statewide energy efficiency and renewable resource program.
- We represent 108 utilities.
- We recently celebrated our 15 year anniversary.
- Over 2,500 contractors have participated in our residential programs since 2012.



Home Performance Program

CHOOSE YOUR PATH





Larger incentives for Whole Home and Heating and Cooling Improvements are available for income-qualified homeowners.



HVAC Contractor Integration

HOME PERFORMANCE PROGRAM

HOME COMFORT ADVISOR PROGRAM

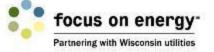
EXCLUSIVE OPPORTUNITY TO BOOST YOUR BUSINESS

Home Performance with ENERGY STAR*, administered nationally by the U.S. Department of Energy in conjunction with the U.S. Environmental Protection Agency, offers a comprehensive, whole-home approach to helping homeowners improve the comfort and energy efficiency of their homes. Contractors offering Home Performance with ENERGY STAR services are equipped with specialized training and tools to help determine how their customers' homes are wasting energy and causing comfort issues.

More than 22,000 Wisconsin homeowners are already enjoying more comfortable, energy-efficient homes thanks to Focus on Energy's Home Performance Program, but thousands more could still benefit.

To help address this, Focus on Energy is excited to offer the **Home**Comfort Advisor Program to a select group of HVAC Trade Allies





Home Energy Score





Energy Efficient Mortgage Pilot



AN FHA ENERGY EFFICIENT MORTGAGE

Ready to share some exciting news with your clients?

Your clients want a home they can afford to buy, maintain, and live in.

CLIENT BENEFITS:

- Low interest rates
- Un to \$1 000 hack at closing



Customer Segmentation Study

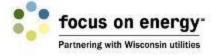




Marketing



A/B testing showed a 64% increase in click through rates when banner adds contained the HPwES logo.

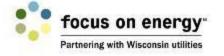




Contact Info

Scott Bloedorn

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Sherry McCormack

Energy Efficiency & Consumer Programs Coordinator Southwestern Electric Power Company (SWEPCO)



BOUNDLESS ENERGY*





Home Performance with ENERGY STAR® Partner Meeting

Incorporating Multifamily Properties while creating a Joint Utility

Partnership

BOUNDLESS ENERGY



Multifamily in HPwES

- Multifamily accounted for 35% of total kWh savings
- Additional 989 units for contractors with less associated overhead
- Training tool
 - On-site mentoring
 - Ability to "practice" by completing 3-5 units/day
- Helps customer segment having little control over utility bills



Arkansas Partnership SWEPCO & Black Hills Energy

- Common application process
- Unified contractor base
- Unified implementation team
 - Joint Contractor Trainings & Kick-off Meetings
 - QA approach and teamed for field mentoring
- Average incentive costs split 50/50
- Joint Quarterly Report to DOE!!



Sherry McCormack AEP SWEPCO

slmccormack@aep.com

479.973.2404

BOUNDLESS ENERGY



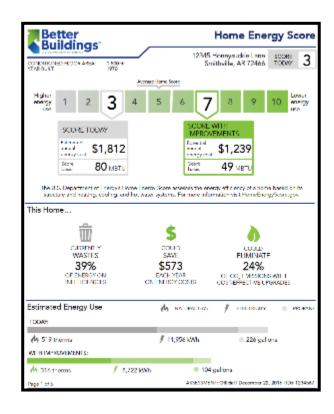
Take a Break







Using Home Energy Score to promote HPwES, Weatherization, and more



Ely Jacobsohn

Program Manager

Home Performance with ENERGY STAR U.S.

Department of Energy

Joan Glickman

Program Manager

Home Energy Score

U.S. Department of Energy







Integrating Home Energy Score and Home Performance with ENERGY STAR

Home Energy Score can be used with HPwES

Can help meet some of the HPwES Minimum Requirements Homeowner Report with a list of recommended improvements

Wholehouse Evaluation

Perfect for Single measure incremental upgrade oriented program models

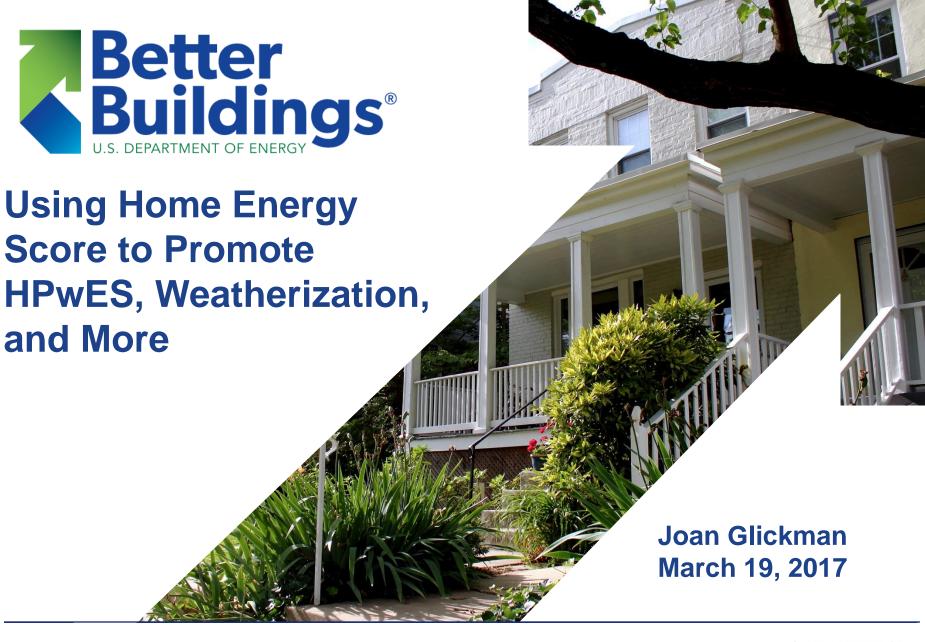
No Cost to Use HEScore

evaluations can typically be completed in less than an hour Just need to add Heallth and Safety and Diagnostics when Needed







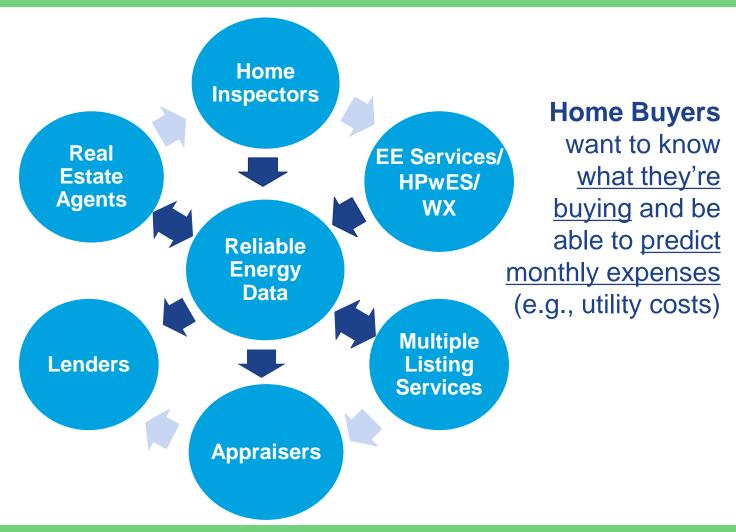




Why Is Residential Labeling Important?

Labels make the invisible, visible.

Home Sellers
want to get credit
for their
investments in
energy efficient
equipment and
other features



Labels can help capture the value of EE at time of sale.

DOE's Home Energy Score: What Is It?

► A "miles-per-gallon" rating for single family homes

- Standardized U.S. Department of Energy (DOE) rating
- Provides estimated energy use for the home, given standard conditions.



Reliable and easy to understand

- Tells consumer how much energy the home is expected to use
- ✓ Gives visibility to home's "hidden" value
- Provides an "actionable" list of cost-effective recommendations to improve a home's energy performance and comfort

ENERGYGUDE Refigerator-Freezer - Automatic Defrost - Side-Mounted Freezer - Through-the-Boor lea Estimated Yearly Operating Cost \$67 \$67 Cost Range of Similar Models

Generated using a DOE energy modeling tool

- Data must be collected in a qualified assessor during an in-home assessment
- ✓ Free online training and test

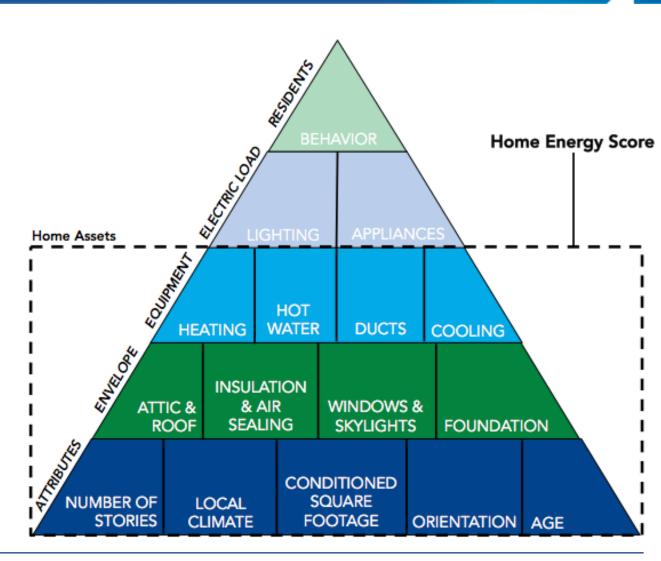






What Data and Information Comprise a Home Energy Score?

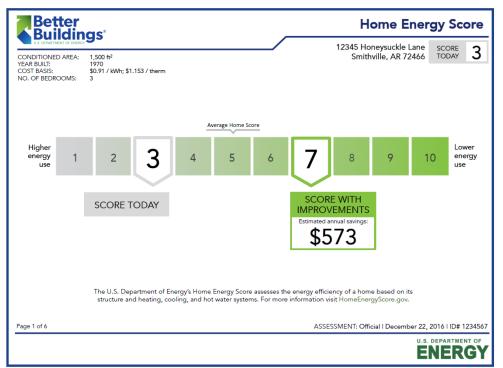
- Home Energy Score
 is based on a
 home's assets that
 affect energy use
- Assets reflect those parts of the property that typically convey at time of sale
- The Scoring Tool applies standard assumptions about occupant behavior and local weather to allow "apples to apples" comparison between homes





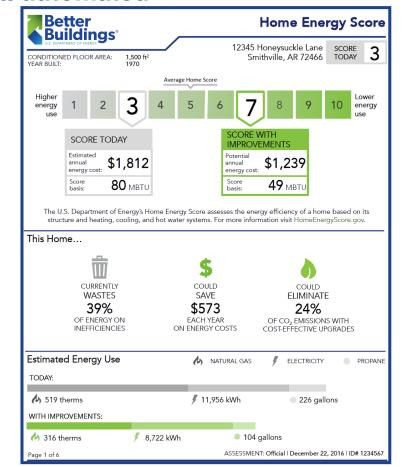


The (Customizable) Home Energy Score Report Part 1: The Score



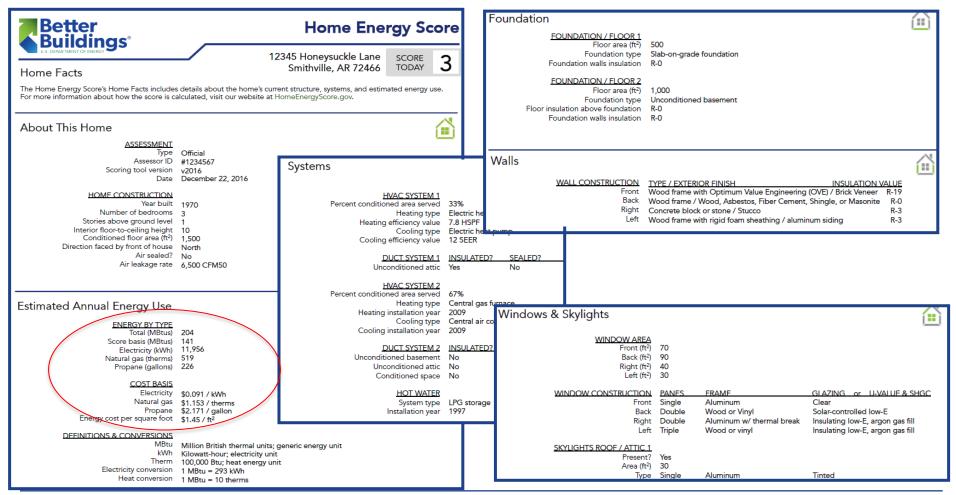
- Takes an hour or less to complete
- Free, on-line tool can be used directly or linked to other software tools via API

- Can be generated by contractors, home inspectors, utilities, others
- No reporting requirements
- All automated



Part 2: Home Facts

This section of the Report provides <u>all of the data inputs collected by the Assessor</u> as well as the <u>estimates generated</u> by the Home Energy Scoring Tool.







Part 3: Recommendations

Recommended Improvements

REPAIR NOW. These improvements will save you money, conserve energy, and improve your comfort.

- Air Tightness: Have a professional seal all the gaps and cracks that leak air to save \$110 / year
- Ducts 1: Add insulation around ducts in unconditioned spaces to at least R-6 to save \$43 / year
- Attic 2: Increase attic floor insulation to at least R-19 to save \$57 / year
- Ducts 2: Add insulation around ducts in unconditioned spaces to at least R-6 to save \$23 / year
- Ducts 2: Have a professional seal all the gaps and cracks that leak air to save \$74 / year

REPLACE LATER. These improvements will help you save energy when it's time to replace or upgrade.

- Windows: Choose ones with an ENERGY STAR label to save \$61 / year
- Water Heater: Choose an ENERGY STAR appliance to save \$159 / year
- ▶ Electric Heat Pump: Choose an ENERGY STAR appliance to save \$32 / year

Comments

Current local incentives may make this house a good candidate for a new water heater.

- Recommendations
 categorized as
 "Repair now" and
 "Replace later"; based
 on cost-effectiveness
 using state average
 utility rates
- Some Partners and Assessors provide their own custom recommendations
- Tool can generate "Upgrade Score" based on custom recommendations





Implementation Highlights: Making It Easy, Making It Matter

- √ ~60,000 homes scored since 2012
- √ ~450 Assessors
- ✓ State and local adoption
 - AL, AR, CO, CT, MO, NH, OR, VT; others considering (e.g. MA, NY, RI, WI)
 - Berkeley, CA and Portland, OR require Score at time of sale or listing
- ✓ 8 software platforms link to DOE's latest Tool via an application programming interface (API)
 - No need for double entry of data
 - Cake Systems, EnergySavvy, Enhabit, Home Inspector Pro, Inspection Depot, Optimizer, Snugg Pro, United Illuminating





- ✓ Free streamlined 3D simulation training and testing for Assessors; update released January 2017
- ✓ Linking realtors, home inspectors
 & efficiency programs through
 DOE's Home Energy Information
 Accelerator
- ✓ Financing opportunities, incentives

Why Should You Consider Integrating the Score into Your Programs?

For many, the Score is an easy and logical add-on.

- ✓ Satisfies a number of HPwES/WX requirements
- ✓ Serves as a whole-home assessment and evaluation tool
 - It runs a <u>full energy simulation</u> of the home using a DOE approved engine
 - While diagnostics are not required to generate a Score, the Tool <u>accepts</u>
 CFM50 data if a blower door test is conducted
- ✓ Generates a standard report
 - Includes a number of <u>different metrics</u> and a list of cost-effective <u>recommendations</u> for efficiency improvements
 - It's <u>customizable</u>, including the ability to rescore the home with program specific asset-related efficiency recommendations
- ✓ Provides free training and testing for Assessors
- ✓ Provides an easy interface for programs to track and download data
 - Partners can pull all inputs as well as Tool outputs for homes scored by their Assessors
- ✓ Appropriate for single measure or whole home upgrade programs





The Opportunity for Integration!

- Lead Generation: Broaden the HPwES market by leveraging interest at point of purchase
- ❖ Enhance Appeal of EE: Use the Score to demonstrate to customers the potential to recover costs at point of sale
- ❖ <u>Before and After:</u> The Score is usually offered at the audit phase and at the conclusion of the HPwES project
- Minimal Additional Effort: With an API-compliant software, it typically adds only a few minutes to the audit
- ❖ Valuing EE: Because of the Score's simplicity and credibility, it enables valuing EE investment by homeowners and buyers.
- ❖ <u>Differentiation</u>: Leading HPwES contractors are incorporating the Score to further differentiate their offerings.



HOME PERFORMANCE WITH ENERGY STAR



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Our Partners

We owe it all to them!





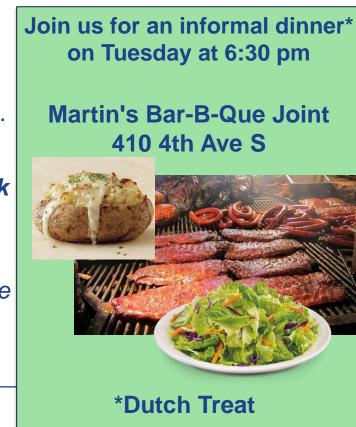
We Want to Hear From YOU!

Questions?

Contact us at HomeEnergyScore@ee.doe.gov (Check us out on the web at www.HomeEnergyScore.gov

Even More Questions?Join us at these sessions:

- "A Review of Exciting Efforts to Scale up Residential Energy Labels." Monday 1:30 - 3 pm. Hear how States are implementing the Score.
- "Looking Beyond Traditional Incentives to Spark Consumer Demand." Monday 3:30 - 5 pm.
 Hear why Contractors are using the Score.
- "Who's Keeping Score? Using Home Performance with ENERGY STAR and Home Energy Score Together." Tuesday 8:30 10 am.







How to work in both Weatherization and Home Performance?

David Rinebolt

Weatherization Assistance Program U.S. Department of Energy







Home Performance with ENERGY STAR Contractor Panel





Panelist

Larry Zarker (Moderator)

Executive Director
Building Performance Institute



Robert Hamerly

Principal GreenSavers



Jonathan Waterworth

Owner

AZ Energy Efficient Home



Tom Carter

Executive Director Efficiency First







Topics for Discussion

Home Performance is more than just efficiency! Home Performance is also about jobs, small businesses, supporting the local economy through business taxes paid, economic development and improving existing housing stock.



Best Practices

Failures

Industry Barriers

What are contractors experiencing?

What are you hearing?

National Trends

Business Models Selling Home Performance

Health, Safety and Comfort





Final Questions and Wrap Up





